

## Rawlins County

### Estimated Economic Impact of Agriculture, Food, and Food Processing Sectors

6/28/2017

Using the most recent IMPLAN data available (2015) adjusted for 2017, 13 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Rawlins County economy.<sup>1</sup>

These 13 sectors have a total direct output of approximately **\$156.1 million** and support **432.3 jobs** in Rawlins County. Running the model for all 13 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Rawlins County Economy						
Impact Type <sup>2</sup>	Employment	% Employment	Total Value Added <sup>3</sup>	Total Value Added % of Gross Regional Product <sup>4</sup>	Output <sup>5</sup>	Output % of Gross Regional Product
Direct Effect	432.3	15.42%	\$31,555,388	20.85%	\$156,077,865	103.14%
Indirect Effect	172.7	6.16%	\$21,849,816	14.44%	\$31,101,826	20.55%
Induced Effect	77.8	2.78%	\$3,878,315	2.56%	\$7,474,223	4.94%
<b>Total Effect</b>	<b>682.8</b>	<b>24.36%</b>	<b>\$57,283,519</b>	<b>37.85%</b>	<b>\$194,653,913</b>	<b>128.63%</b>

As shown in the above table, agriculture, food, and food processing sectors support **682.8 jobs**, or **24.36%** of the entire workforce in the county. These sectors provide a total economic contribution of approximately **\$194.7 million, roughly 128.63% of the economy.**

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 13 agriculture, food, and food processing sectors is approximately **\$57.3 million**, or **37.85% of the GRP**. This indicates that personal income, business income, and taxes generated by these sectors account for **37.85% of the total economy.**

The following tables document the overall summary numbers of the model, top industries affected by employment and output, and a listing of all industries that were analyzed.

<sup>1</sup> Article on building a contribution analysis in IMPLAN that avoids double counting:

[http://www.implan.com/index.php?option=com\\_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70](http://www.implan.com/index.php?option=com_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70)

<sup>2</sup> Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

<sup>3</sup> Value added = labor income + indirect business taxes + other property type income.

<sup>4</sup> GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

<sup>5</sup> Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **171.1 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Rawlins County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	171.1	\$34,155,328
Grain farming	89.0	\$51,339,211
All other crop farming	45.8	\$5,484,500
Support activities for agriculture and forestry	44.1	\$13,383,245
Wholesale trade	41.8	\$10,289,648
Other animal food manufacturing	29.3	\$39,683,018
Veterinary services	25.5	\$1,488,372
Animal production, except cattle and poultry and eggs	22.4	\$4,172,494
Accounting, tax preparation, bookkeeping, and payroll services	20.6	\$509,246
Dairy cattle and milk production	20.3	\$7,715,358

The grain farming sector directly contributes approximately **\$51.3 million** to the Rawlins County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output		
Sector	Total Employment	Total Output
Grain farming	89.0	\$51,339,211
Other animal food manufacturing	29.3	\$39,683,018
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	171.1	\$34,155,328
Support activities for agriculture and forestry	44.1	\$13,383,245
Wholesale trade	41.8	\$10,289,648
Dairy cattle and milk production	20.3	\$7,715,358
Farm machinery and equipment manufacturing	9.4	\$5,869,599
All other crop farming	45.8	\$5,484,500
Animal production, except cattle and poultry and eggs	22.4	\$4,172,494
Animal, except poultry, slaughtering	4.4	\$3,249,848

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Rawlins County economy.

<b>All Agriculture, Food, and Food Processing Sectors</b>		
<b>Sector</b>	<b>Total Employment</b>	<b>Total Output</b>
Oilseed farming	1.1	\$1,966,767.79
Grain farming	89.0	\$51,339,210.51
All other crop farming	45.8	\$5,484,499.93
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	171.1	\$34,155,326.84
Dairy cattle and milk production	20.3	\$7,715,357.78
Poultry and egg production	0.3	\$266,340.70
Animal production, except cattle and poultry and eggs	22.4	\$4,172,493.93
Other animal food manufacturing	29.3	\$39,683,017.73
Animal, except poultry, slaughtering	4.4	\$3,249,847.65
Bread and bakery product, except frozen, manufacturing	1.9	\$189,416.68
Farm machinery and equipment manufacturing	9.4	\$5,869,599.34
Veterinary services	25.5	\$1,488,372.09
Landscape and horticultural services	11.7	\$497,610.36

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Rawlins County, the retail sector was omitted.